

Inventor(s): Paul Andrew Abraham
Serial No.: 10/085,722
Filed: February 28, 2002
For: HAIR CLIPPER WITH PIVOTING CLIPPER HEAD ASSEMBLY
Art Unit: 3724
Examiner: Peterson, Kenneth E.

Attorney Docket No.: 833.0168USQ

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A hair clipper comprising:

a clipper head having a cutting assembly;

a handle having a longitudinal axis; and

a head connector for connecting the clipper head and the handle so that the clipper head pivots about an axis of rotation that is perpendicular to the longitudinal axis of the handle and offset from said cutting assembly,

wherein the clipper head is ~~can be fixedly~~ selectively positioned in any one of ~~at least three~~ a plurality of preset pivot positions by application of a force to a surface located on a side of the axis of rotation opposite the cutting assembly.

2. (Previously presented) The hair clipper of claim 1, wherein the head connector comprises:

at least one arm disposed on the handle and offset from the longitudinal axis of the handle;

a first connector disposed on the at least one arm; and

a second connector positioned on the clipper head,

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wherein the first and second connectors join the clipper head to the arm of the handle so that the clipper head pivots about the axis of rotation.

3. (Previously presented) The hair clipper of claim 1, wherein the head connector is adapted to join the clipper head and the handle so that the clipper head is securely positioned in any one of the preset pivoted positions.

4. (Previously presented) The hair clipper of claim 3, wherein the head connector comprises:

at least one arm disposed on the handle and offset from the longitudinal axis of the handle;

a first connector disposed on the at least one arm; and

a second connector positioned on the clipper head,

wherein the first and second connectors join the clipper head to the arm of the handle so that the clipper head pivots about the axis of rotation and so that the clipper head is securely positioned in any one of the plurality of pivoted positions.

5. (Previously presented) The hair clipper of claim 4, wherein the first connector is a first gear, the second connector is a second gear, and the head connector includes a

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releasing mechanism for meshing and unmeshing the first gear and the second gear, so that when the first gear is meshed with the second gear the clipper head is secured in any one of the pivot positions, and when the first gear is unmeshed from the second gear the clipper head is pivotable about the axis of rotation.

6. (Previously presented) The hair clipper of claim 5, wherein the releasing mechanism for meshing and unmeshing comprises a release button adapted to mesh the first gear with the second gear and adapted to be depressed to unmesh the first gear from the second gear.

7. (Previously presented) The hair clipper of claim 1, wherein the cutting assembly is operatively connected to a motor.

8. (Withdrawn) The hair clipper of claim 7, wherein the handle further comprises:

a switch having an on position and an off position, and

a cord with a plug,

wherein the motor is operatively connected to the cord when the switch is in the on position so that power flows to the motor from a standard household electrical outlet that receives the plug.

9. (Canceled)

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10. (Withdrawn) The hair clipper of claim 9, wherein the handle further comprises:

a switch having an on position and an off position, and

a plug,

wherein the motor is operatively connected to the battery when the switch is in the on position so that power flows from the battery to the motor.

11-13. (Canceled)

14. (Currently amended) A hair clipper comprising:

a clipper head having pivot points positioned on opposite sides of the head defining a pivot axis, a stationary blade having teeth, and a reciprocating blade having teeth, wherein the teeth of the stationary blade are substantially parallel to the teeth of the reciprocating blade forming a cutting edge; and

a handle having ~~a longitudinal axis~~, a pair of support arms, each support arm being pivotally connected to a respective one of said pivot points, and a motor and drive system for reciprocating the reciprocating blade such that hair positioned within the teeth of the stationary blade are cut by cutting edge; and

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~~a connector disposed on each arm, and a mechanism for reciprocating the reciprocating blade so that hair positioned within the teeth of the stationary blade are cut by the teeth of the reciprocating blade,~~

~~wherein each connector is adapted to engage one of the pivot points such so that the clipper head is pivotable about an axis of rotation perpendicular to the longitudinal axis of the handle and is parallel to and offset from the cutting edge~~

wherein the cutting edge is located on said head at a distal position from the pivot axis.

15. (Previously presented) The hair clipper of claim 14, wherein the connectors disposed on each arm and the pivot points are adapted to join the clipper head and the handle ~~such~~ so that the clipper head is securable in any one of a number of preset pivoted positions.

16. (Previously presented) The hair clipper of claim 15, further comprising a mechanism for selectively releasing and securing the connectors and the pivot points so that when the connectors and pivot points are secured the clipper head is secured in any one of the plurality of pivoted positions, and when the connectors and pivot points are released the clipper head is pivotable about the axis of rotation.

17. (Previously presented) The hair clipper of claim 16, wherein the connectors are first gears, the pivot points are

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second gears, and the releasing and securing mechanism is adapted to release and secure the first gears with the second gears, respectively, so that when the first gears are secured with the second gears the clipper head is secured in any one of the number of pivoted positions, and when the first gears are released from the second gears the clipper head is pivotable about the axis of rotation.

18. (Previously presented) The hair clipper of claim 16, wherein the releasing and securing mechanism is a release button adapted to normally secure the connectors and the pivot points, and adapted to be depressed to release the connectors and the pivot points.

19. (Withdrawn) An electric hair clipper comprising:

a clipper head having a cutting assembly with a concentric outer stationary blade, an inner hub and one or more inner blades circumferentially spaced on the inner hub, wherein the outer stationary blade and the one or more inner blades are configured so as to be substantially flush with one another and thereby form a cutting edge;

a handle having a longitudinal axis, a motor operatively connected to the cutting assembly so that hair positioned between the outer blade and the inner blades is cut along the cutting edge; and

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a head connector for connecting the clipper head and the handle so that the clipper head pivots about an axis of rotation that is perpendicular to the longitudinal axis of the handle and offset from said cutting edge.

20. (Withdrawn) The electric hair clipper of claim 19, wherein the head connector is further adapted to join the clipper head and the handle so that the clipper head is securable in any one of a number of preset pivoted positions.

21. (Withdrawn) A nose and ear hair clipper comprising:

a handle having a longitudinal axis;

a clipper head having a concentric cutting assembly; and

a head connector connecting the clipper head and the handle so that the clipper head pivots about an axis of rotation perpendicular to the longitudinal axis of the handle and offset from said concentric cutting assembly,

wherein the clipper head can be fixedly positioned in any one of a number of pivot positions.

22. (Withdrawn) The hair clipper of claim 21, wherein the cutting assembly has a concentric outer stationary blade and an inner cylindrical hub with one or more blades circumferentially spaced thereon.

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23. (Withdrawn) The hair clipper of claim 21, wherein the one or more blades and the stationary blade form a cutting edge.

24. (Withdrawn) The hair clipper of claim 21, wherein the cutting assembly is operatively connected to a motor.

25. (Withdrawn) The hair clipper of claim 24, wherein the motor is connected to the inner cylindrical hub by a rotating drive shaft driven by the motor.

26. (Withdrawn) The hair clipper of claim 21, wherein the clipper head has a pair of pivot points positioned on opposite sides of the head.

27. (Withdrawn) The hair clipper of claim 26, wherein the handle has a pair of arms, a connector disposed on each arm and a mechanism for selectively releasing and securing the connectors and the pivot points so that when the connectors and pivot points are secured the clipper head is secured in any one of the number of pivoted positions, and when the connectors and pivot points are released the clipper head is pivotable about the axis of rotation.

28. (Withdrawn) The hair clipper of claim 27, wherein the connectors are first gears, the pivot points are second gears, and the releasing and securing mechanism is adapted to release and secure the first gears with the second gears ~~such~~ so that when the first gears are secured with the second gears the clipper head is secured in any one of the number of pivoted

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positions, and when the first gears are released from the second gears the clipper head is pivotable about the axis of rotation.

29. (Withdrawn) The hair clipper of claim 27, wherein the releasing and securing mechanism is a release button adapted to normally secure the connectors and the pivot points, and adapted to be depressed to release the connectors and the pivot points.

30. (Withdrawn) The hair clipper of claim 24, wherein the handle further comprises:

a switch mechanism; and

a cord with a plug,

wherein the motor is operatively connected to the cord by the switch mechanism ~~such~~ so that power can be selectively supplied to the motor.

31. (Withdrawn) The hair clipper of claim 24, further comprising:

a rechargeable battery operatively connected to the motor;

a switch mechanism;

a plug; and

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a recharging indicator,

wherein the battery is operatively connected to the plug and the recharging indicator so that power can flow from a source to recharge the battery and to operate the recharging indicator.

32.(Withdrawn) The hair clipper of claim 31, wherein the recharging indicator is an illuminating device that illuminates when the battery is charging.